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ABSTRACT

This bill was presented before the Congress of the United States of America to amend the Elementary and Secondary Education Act of 1965. One section in the amendment focuses on improving basic programs operated by local educational agencies, and covers the activities and applications of the Eisenhower National Clearinghouse (ENC). This document also reports on decisions regarding the summer professional development institutions and requirements of the National Science Foundation (NSF). (YDS)

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106TH CONGRESS
2D SESSION

H. R. 4272

To amend the Elementary and Secondary Education Act of 1965 to establish
and expand programs relating to science, mathematics, engineering, and
technology education, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

APRIL 13, 2000

Mr. EHLERS (for himself, Mrs. BIGGERT, Mr. BOEHLERT, Mr. BRADY of
Texas, Mr. COOK, Mr. GILCHREST, Mr. GILMAN, Mr. HOLT, Mr. JEN-
KINS, Ms. EDDIE BERNICE JOHNSON of Texas, Mr. KUYKENDALL, Mr.
PORTER, Mrs. ROUKEMA, Mr. SMITH of Michigan, Mr. SWEENEY, Mr.
UPTON, and Mrs. WILSON) introduced the following bill; which was re-
ferred to the Committee on Education and the Workforce

A BILL

To amend the Elementary and Secondary Education Act
of 1965 to establish and expand programs relating to
science, mathematics, engineering, and technology edu-
cation, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

4 (a) SHORT TITLE.—This Act may be cited as the
5 “National Science Education Enhancement Act”.

1 (b) TABLE OF CONTENTS.—The table of contents for
 2 this Act is as follows:

- Sec. 1. Short title; table of contents.
- Sec. 2. Findings.
- Sec. 3. Assurance of continued local control.

TITLE I—AMENDMENTS TO THE ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965

- Sec. 101. Support for mentoring activities for science, mathematics, engineering, and technology teachers.
- Sec. 102. Expansion of Eisenhower National Clearinghouse.
- Sec. 103. Summer Professional Development Institutes.
- Sec. 104. Grants for teacher technology training software and instructional materials.
- Sec. 105. Reservation for after-school activities.
- Sec. 106. After-school science day care at community learning centers.

TITLE II—OTHER PROVISIONS

- Sec. 201. Work-study amendments.
- Sec. 202. Study.
- Sec. 203. Report to Congress.

3 **SEC. 2. FINDINGS.**

4 The Congress finds the following:

5 (1) As concluded in the report of the Com-
 6 mittee on Science of the House of Representatives,
 7 “Unlocking Our Future Toward a New National
 8 Science Policy,” which was adopted by the House of
 9 Representatives, the United States must maintain
 10 and improve its preeminent position in science and
 11 technology in order to advance human under-
 12 standing of the universe and all it contains, and to
 13 improve the lives, health, and freedoms of all people.

14 (2) It is estimated that more than half of the
 15 economic growth of the United States today results
 16 directly from research and development in science

1 and technology. The most fundamental research is
2 responsible for investigating our perceived universe,
3 to extend our observations to the outer limits of
4 what our minds and methods can achieve, and to
5 seek answers to questions that have never been
6 asked before. Applied research continues the process
7 by applying the answers from basic science to the
8 problems faced by individuals, organizations, and
9 governments in the everyday activities that make our
10 lives more livable. The scientific-technological sector
11 of our economy, which has driven our recent eco-
12 nomic boom and led the United States to the longest
13 period of prosperity in history, is fueled by the work
14 and discoveries of the scientific community.

15 (3) The effectiveness of the United States in
16 maintaining this economic growth will be largely de-
17 termined by the intellectual capital of the United
18 States. Education is critical to developing this re-
19 source.

20 (4) The education program of the United States
21 needs to provide for 3 different kinds of intellectual
22 capital. First, it needs scientists and engineers to
23 continue the research and development that is cen-
24 tral to the economic growth of the United States.
25 Second, it needs technologically proficient workers

1 who are comfortable and capable dealing with the
2 demands of a science-based, high-technology work-
3 place. Last, it needs scientifically literate voters and
4 consumers to make intelligent decisions about public
5 policy.

6 (5) Student performance on the recent Third
7 International Math and Science Study highlights the
8 shortcomings of current K-12 science and mathe-
9 matics education in the United States, particularly
10 when compared to other countries. We must expect
11 more from our Nation's educators and students if
12 we are to build on the accomplishments of previous
13 generations. New methods of teaching mathematics
14 and science are required, as well as better curricula
15 and improved training of teachers.

16 (6) Science is more than a collection of facts,
17 theories, and results. It is a process of inquiry built
18 upon observations and data that leads to a way of
19 knowing and explaining in logically derived concepts
20 and theories.

21 (7) Students should learn science primarily by
22 doing science. Science education ought to reflect the
23 scientific process and be object-oriented, experiment-
24 centered, and concept-based.

1 (8) Children are naturally curious and inquisi-
2 tive. To successfully tap into these innate qualities,
3 education in science must begin at an early age and
4 continue throughout the entire school experience.

5 (9) Teachers provide the essential connection
6 between students and the content they are learning.
7 High-quality prospective teachers need to be identi-
8 fied and recruited by presenting to them a career
9 that is respected by their peers, is financially and in-
10 tellectually rewarding, and contains sufficient oppor-
11 tunities for advancement.

12 (10) Teachers need to have incentives to remain
13 in the classroom and improve their practice, and
14 training of teachers is essential if the results are to
15 be good. Teachers need to be knowledgeable of their
16 content area, of their curriculum, of up-to-date re-
17 search in teaching and learning, and of techniques
18 that can be used to connect that information to their
19 students in their classroom.

20 **SEC. 3. ASSURANCE OF CONTINUED LOCAL CONTROL.**

21 Nothing in this Act may be construed to authorize
22 any department, agency, officer, or employee of the United
23 States to exercise any direction, supervision, or control
24 over the curriculum, program of instruction, administra-

tion, or personnel of any educational institution or school system.

TITLE I—AMENDMENTS TO THE ELEMENTARY AND SEC- ONDARY EDUCATION ACT OF 1965

SEC. 101. SUPPORT FOR MENTORING ACTIVITIES FOR SCIENCE, MATHEMATICS, ENGINEERING, AND TECHNOLOGY TEACHERS.

(a) IMPROVING BASIC PROGRAMS OPERATED BY LOCAL EDUCATIONAL AGENCIES THROUGH PROFESSIONAL DEVELOPMENT.—Section 1119(b)(1) of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 6301(b)(1)) is amended—

(1) by striking “and” at the end of subparagraph (D);

(2) by striking the period at the end of subparagraph (E) and inserting “; and”; and

(3) by adding at the end the following:

“(F) include mentoring programs focusing on changing science, mathematics, engineering, and technology teacher behaviors and practices to help novice teachers develop and gain confidence in their skills, to increase the likelihood that they will continue in the teaching profes-

1 sion, and generally to improve the quality of
2 their teaching.”.

3 (b) DISSEMINATION OF MENTORING INFORMATION
4 BY EISENHOWER NATIONAL CLEARINGHOUSE.—Section
5 2102(a)(3)(C) of the Elementary and Secondary Edu-
6 cation Act of 1965 (20 U.S.C. 6622(a)(3)(C)) is amended
7 by striking “materials” and inserting “materials, includ-
8 ing information on model science, mathematics, engineer-
9 ing, and technology teacher mentoring programs,”.

10 (c) EISENHOWER PROFESSIONAL DEVELOPMENT
11 PROGRAM STATE APPLICATIONS.—Section 2205(b)(2) of
12 the Elementary and Secondary Education Act of 1965 (20
13 U.S.C. 6645(b)(2)) is amended—

14 (1) by striking “and” at the end of subpara-
15 graph (N);

16 (2) by striking the period at the end of sub-
17 paragraph (O) and inserting “; and”; and

18 (3) by adding at the end the following:

19 “(P) describe how the State will administer
20 a mentoring system to ensure consistent imple-
21 mentation of mentoring programs for science,
22 mathematics, engineering, and technology
23 teachers, provide a structure for local men-
24 toring program evaluation, provide technical as-
25 sistance to local mentoring programs, ensure

1 compliance by local mentoring programs with
2 State teacher training requirements, and pro-
3 vide incentives for local educational agencies to
4 take mentoring into consideration in assessing
5 instructional staff hiring needs.”.

6 (d) EISENHOWER PROFESSIONAL DEVELOPMENT
7 PROGRAM LOCAL ACTIVITIES.—Section 2210(b)(2) of the
8 Elementary and Secondary Education Act of 1965 (20
9 U.S.C. 6650(b)(2)) is amended—

10 (1) by striking “and” at the end of subpara-
11 graph (D);

12 (2) by striking the period at the end of sub-
13 paragraph (E) and inserting “; and”; and

14 (3) by adding at the end the following:

15 “(F) include mentoring programs focusing
16 on changing science, mathematics, engineering,
17 and technology teacher behaviors and practices
18 to help novice teachers develop and gain con-
19 fidence in their skills, to increase the likelihood
20 that they will continue in the teaching profes-
21 sion, and generally to improve the quality of
22 their teaching.”.

23 (e) ACCOUNTABILITY.—Section 2401(a) of the Ele-
24 mentary and Secondary Education Act of 1965 (20 U.S.C.
25 6701(a)) is amended by striking “part.” and inserting

1 “part, including the impact of State and local mentoring
2 programs on teaching quality and teacher retention
3 rates.”.

4 **SEC. 102. EXPANSION OF EISENHOWER NATIONAL CLEAR-**
5 **INGHOUSE.**

6 (a) ALLOCATION OF APPROPRIATED AMOUNTS.—
7 Section 2003(b)(1) of the Elementary and Secondary
8 Education Act of 1965 (20 U.S.C. 6603(b)(1)) is amended
9 by striking “2103;” and inserting “2103, and
10 \$10,000,000 shall be available to carry out subparagraphs
11 (A), (F), and (G) of section 2102(b)(3);”.

12 (b) USE OF FUNDS.—Section 2102(b)(3) of the Ele-
13 mentary and Secondary Education Act of 1965 (20 U.S.C.
14 6622(b)(3)) is amended—

15 (1) in subparagraph (A), by striking “(includ-
16 ing, to the extent practicable,” and inserting “(in-
17 cluding”;

18 (2) in subparagraph (E), by striking “and” at
19 the end;

20 (3) by amending subparagraph (F) to read as
21 follows:

22 “(F) solicit and gather (in consultation
23 with the Department, national teacher associa-
24 tions, professional associations, and other re-
25 viewers and developers of education materials

1 and programs) all qualitative and evaluative
2 materials and all programs, including full text
3 and graphics, for the Clearinghouse, review the
4 evaluation of the materials and programs, rank
5 the effectiveness of the materials and programs
6 on the basis of the evaluations, and distribute
7 the results of the reviews (in a short, standard-
8 ized, and electronic format that contains elec-
9 tronic links to an electronic version of the origi-
10 nal qualitative and evaluative materials), ex-
11 cerpts of the materials and links to Internet-
12 based sites, and information regarding on-line
13 communities of users to teachers in an easily
14 accessible manner, except that nothing in this
15 subparagraph shall be construed to permit the
16 Clearinghouse to directly conduct an evaluation
17 of the materials or programs; and” and
18 (4) by adding at the end the following:

19 “(G) develop and establish an Internet-
20 based site offering a search mechanism to assist
21 site visitors in identifying information available
22 through the Clearinghouse on science, mathe-
23 matics, engineering, and technology education
24 instructional materials and programs, including
25 electronic links to information on classroom

1 demonstrations and experiments, teachers who
2 have used materials or participated in pro-
3 grams, vendors, curricula, and textbooks.”.

4 (c) CLEARINGHOUSE.—Section 2102(b) of the Ele-
5 mentary and Secondary Education Act of 1965 (20 U.S.C.
6 6622(b)) is amended by adding at the end the following:

7 “(9) EFFECTIVE USE OF TECHNOLOGY.—In re-
8 viewing evaluations of materials and programs under
9 this subsection the Clearinghouse shall give par-
10 ticular attention to the effective use of materials and
11 technology in science, mathematics, engineering, and
12 technology education.”.

13 (d) REPORT.—Not later than two years after the date
14 of the enactment of this Act, the National Academy of
15 Sciences, in conjunction with appropriate related associa-
16 tions and organizations, shall—

17 (1) conduct a study on the Eisenhower National
18 Clearinghouse and whether the provisions enacted in
19 the amendments made by this section have resulted
20 in the Clearinghouse becoming a more effective enti-
21 ty; and

22 (2) submit to Congress a report on the study,
23 including any recommendations of the Academy re-
24 garding the Clearinghouse.

1 **SEC. 103. SUMMER PROFESSIONAL DEVELOPMENT INSTI-**
2 **TUTES.**

3 (a) IN GENERAL.—Section 2211 of the Elementary
4 and Secondary Education Act of 1965 (20 U.S.C. 6651)
5 is amended by adding at the end the following:

6 “(d) SUMMER PROFESSIONAL DEVELOPMENT INSTI-
7 TUTES FOR TEACHERS.—

8 “(1) PROGRAM AUTHORIZED.—From amounts
9 made available to carry out this subsection, the Sec-
10 retary is authorized to make grants to State agen-
11 cies for higher education, working in conjunction
12 with the State educational agency (if such agencies
13 are separate), for activities described in paragraph
14 (3). Such grants shall be awarded on a competitive
15 basis that includes a peer review of the grant appli-
16 cations.

17 “(2) SUBGRANTS.—

18 “(A) IN GENERAL.—A recipient of a grant
19 under paragraph (1) shall carry out the activi-
20 ties described in paragraph (3) by making sub-
21 grants to, or entering into contracts or coopera-
22 tive agreements with, institutions of higher edu-
23 cation, and nonprofit organizations of dem-
24 onstrated effectiveness, including museums and
25 educational partnership organizations, which
26 must work in conjunction with a local edu-

1 cational agency, consortium of local educational
2 agencies, or schools.

3 “(B) PRIORITY.—In making awards under
4 subparagraph (A), a grant recipient shall give
5 priority to applicants whose application includes
6 an assurance that the applicant will use a cur-
7 riculum recognized by the working group estab-
8 lished under section 17 of the National Science
9 Foundation Act of 1950, particularly if the
10 local educational agency (or agencies) described
11 in subparagraph (A), or the State educational
12 agency (if such agency is separate from the
13 grant recipient), has adopted such curriculum.

14 “(3) ALLOWABLE ACTIVITIES.—

15 “(A) IN GENERAL.—Each recipient of
16 funds under paragraph (2) shall use the funds
17 for the following:

18 “(i) The establishment and operation
19 of science, mathematics, engineering, and
20 technology summer institutes that provide
21 professional development to elementary
22 and secondary school teachers. Such insti-
23 tutes shall be content-based, build on
24 school year curricula, and focus only sec-
25 ondarily on pedagogy.

1 “(ii) To provide teachers with travel
2 expense reimbursement, a stipend, or class-
3 room materials related to such an insti-
4 tute.

5 “(iii) The establishment of a mecha-
6 nism to provide supplemental assistance
7 and follow up training during the school
8 year for summer institute graduates.

9 “(B) REQUIREMENTS FOR CURRICULA.—
10 The curricula referred to in subparagraph
11 (A)(i) shall be object-centered, experiment-ori-
12 ented, content-based, and grounded in current
13 research.

14 “(C) REQUIREMENTS FOR INSTITUTES.—
15 The summer institutes referred to in subpara-
16 graph (A)(i)—

17 “(i) shall be conducted during a pe-
18 riod of a minimum of two weeks;

19 “(ii) shall provide for direct inter-
20 action between students and faculty;

21 “(iii) shall have a component that in-
22 cludes use of the Internet; and

23 “(iv) shall provide for follow-up train-
24 ing in the classroom during the academic
25 year for a period of a minimum of three

1 days, which shall not be required to be
2 consecutive, except that—

3 “(I) if the program at the sum-
4 mer institute is for a period of only
5 two weeks, the follow-up training shall
6 be for a period of more than 3 days;
7 and

8 “(II) for teachers in rural school
9 districts, follow-up training through
10 the Internet may be used.

11 “(4) REVIEW OF APPLICATIONS BY NATIONAL
12 SCIENCE FOUNDATION.—The Secretary shall provide
13 each application for a grant under this subsection to
14 the Director of the National Science Foundation in
15 order that such applications may undergo the peer-
16 review process described in paragraph (5)(B), and
17 shall implement the recommendations of the Direc-
18 tor in awarding grants under this subsection.

19 “(5) REQUIREMENTS ON NATIONAL SCIENCE
20 FOUNDATION.—

21 “(A) IN GENERAL.—Each year, not later
22 than 6 months before the application deadline
23 for a subgrant, contract, or cooperative agree-
24 ment described in paragraph (2), the Director
25 of the National Science Foundation shall de-

1 develop a theme and structure for the summer in-
2 stitutes supported under this subsection. Such
3 applications shall address how funds will be
4 used in accordance with the theme and struc-
5 ture developed by the Director.

6 “(B) APPLICATION PEER-REVIEW PROC-
7 ESS.—The Director—

8 “(i) shall establish a peer-review proc-
9 ess for applications for grants received
10 under this subsection; and

11 “(ii) shall forward the applications se-
12 lected by the Director through such proc-
13 ess to the Secretary.

14 “(C) PRIORITY.—In making awards under
15 paragraph (2)(A), a grant recipient shall give
16 priority to applicants whose application includes
17 an assurance that the applicant will use a
18 curriculum—

19 “(i) that is recognized by the working
20 group established under section 17 of the
21 National Science Foundation Act of 1950,
22 particularly if the local educational agency
23 (or agencies) described in paragraph
24 (2)(A), or the State educational agency (if

1 such agency is separate from the grant re-
2 cipient), has adopted such curriculum; or

3 “(ii) that is three or four weeks in
4 length.

5 “(6) OTHER REQUIREMENTS.—Paragraphs (2),
6 (3), and (4) of subsection (a), and subsection (c),
7 shall apply to recipients of funds under this sub-
8 section in the same manner as such provisions apply
9 to recipients of funds under subsection (a)(1).

10 “(7) CREDIT FOR PARTICIPATION.—Participa-
11 tion in an institute supported under this subsection
12 shall earn credit toward—

13 “(A) State continuing education require-
14 ments for teachers; or

15 “(B) a post-baccalaureate degree program
16 at an institution of higher education.”.

17 (b) FUNDING.—

18 (1) ALLOCATION OF APPROPRIATED
19 AMOUNTS.—Section 2003(b)(2) of the Elementary
20 and Secondary Education Act of 1965 (20 U.S.C.
21 6603(b)(2)) is amended by striking “B;” and insert-
22 ing “B, of which \$100,000,000, \$150,000,000,
23 \$200,000,000, and \$200,000,000 shall be available
24 to carry out section 2211(d) for fiscal years 2001,
25 2002, 2003, and 2004, respectively;”.

1 (2) RESERVATION OF FUNDS.—Section 2202(a)
 2 of the Elementary and Secondary Education Act of
 3 1965 (20 U.S.C. 6642(a)) is amended—

4 (A) in paragraph (1), by striking “and”;

5 (B) in paragraph (2), by striking the pe-
 6 riod at the end and inserting “; and”; and

7 (C) by adding at the end the following:

8 “(3) the amount made available under section
 9 2003(b)(2) to carry out section 2211(d).”.

10 **SEC. 104. GRANTS FOR TEACHER TECHNOLOGY TRAINING**
 11 **SOFTWARE AND INSTRUCTIONAL MATERIALS.**

12 Section 3134 of the Elementary and Secondary Edu-
 13 cation Act of 1965 (20 U.S.C. 6844) is amended—

14 (1) in paragraph (5), by striking “and” at the
 15 end;

16 (2) in paragraph (6), by striking the period at
 17 the end and inserting “; and”; and

18 (3) by adding at the end the following:

19 “(7) providing technology training software and
 20 instructional materials to teachers.”.

21 **SEC. 105. RESERVATION FOR AFTER-SCHOOL ACTIVITIES.**

22 Section 10904(a) of the Elementary and Secondary
 23 Education Act of 1965 (20 U.S.C. 8244) is amended—

24 (1) by striking “and” after the semicolon in
 25 paragraph (2);

1 (2) by striking the period at the end of para-
 2 graph (3) and inserting “; and”; and

3 (3) by adding at the end the following:

4 “(4) an assurance that if awarded a grant
 5 under this part, the grant recipient shall use not less
 6 than 5 percent of the amount received to provide
 7 after-school day care services that focus on science
 8 activities.”.

9 **SEC. 106. AFTER-SCHOOL SCIENCE DAY CARE AT COMMU-**
 10 **NITY LEARNING CENTERS.**

11 Section 10905(3) of the Elementary and Secondary
 12 Education Act of 1965 (20 U.S.C. 8245(3)) is amended
 13 by striking “services.” and inserting “services, including
 14 after-school day care services that focus on science activi-
 15 ties for children in grades kindergarten through the sixth
 16 grade.”.

17 **TITLE II—OTHER PROVISIONS**

18 **SEC. 201. WORK-STUDY AMENDMENTS.**

19 (a) **TECHNOLOGY TRAINING TREATED AS COMMU-**
 20 **NITY SERVICE.**—Section 441(c) of the Higher Education
 21 Act of 1965 (20 U.S.C. 2751(c)) is amended—

22 (1) in paragraph (1), by inserting “technology
 23 training,” after “literacy training,”; and

1 (2) in paragraph (4)(A), by inserting before the
2 semicolon at the end the following: “, including tu-
3 toring teachers in the uses of classroom technology”.

4 (b) ADDITIONAL SPENDING FOR TECHNOLOGY
5 TRAINING.—Section 443(b)(2)(B) of such Act (20 U.S.C.
6 2753(b)(2)(B)) is amended—

7 (1) by striking “7 percent” and inserting “10
8 percent”;

9 (2) by inserting “(i)” after “shall ensure that”;
10 and

11 (3) by inserting after “requirement of this sub-
12 paragraph” the following: “, and (ii) at least 3 per-
13 cent of the total amount of funds granted to such
14 institution under this section for such fiscal year is
15 used to compensate students employed in technology
16 training or tutoring teachers in the uses of class-
17 room technology (or both),”.

18 **SEC. 202. STUDY.**

19 The Secretary of Commerce, in consultation with
20 other Government agencies, appropriate organizations,
21 and private businesses and corporations, shall conduct a
22 study of—

23 (1) the feasibility and effectiveness of various
24 incentives, including tax credits, for corporations
25 and businesses to provide—

1 (A) personnel with regular compensation
2 for time spent as volunteers engaged in the
3 technological training of teachers; and

4 (B) facilities for the provision of such
5 training of teachers;

6 (2) alternative methods of providing financial
7 support, through income tax credits, loan forgive-
8 ness, or otherwise, to individuals seeking training or
9 retraining in mathematics, science, and technology
10 education;

11 (3) the effectiveness of colleges and universities
12 in training teachers who are able to use technology
13 and able to integrate technology into lesson plans
14 and curricula, including distance learning;

15 (4) methods to coordinate a working alliance at
16 various levels of government between the business
17 and academic community; and

18 (5) additional means of improving the efficiency
19 of the technological training of teachers.

20 **SEC. 203. REPORT TO CONGRESS.**

21 Not later than one year after the date of the enact-
22 ment of this Act, the Secretary of Commerce shall trans-
23 mit to the Congress a report outlining the results of the
24 study conducted under section 202. Such report shall in-
25 clude proposals for a comprehensive approach to providing

1 technologically competent teachers to our Nation's schools.
2 With respect to any objectives described in paragraphs (1)
3 though (5) of section 202 that the Secretary determines
4 are feasible and effective, such report shall include a plan
5 for the accomplishing such objectives.

○



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